

इंटरनेट

मानक

### Disclosure to Promote the Right To Information

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7990 (1976): Pliers for External Circlips [PGD 5: Assembly Hand Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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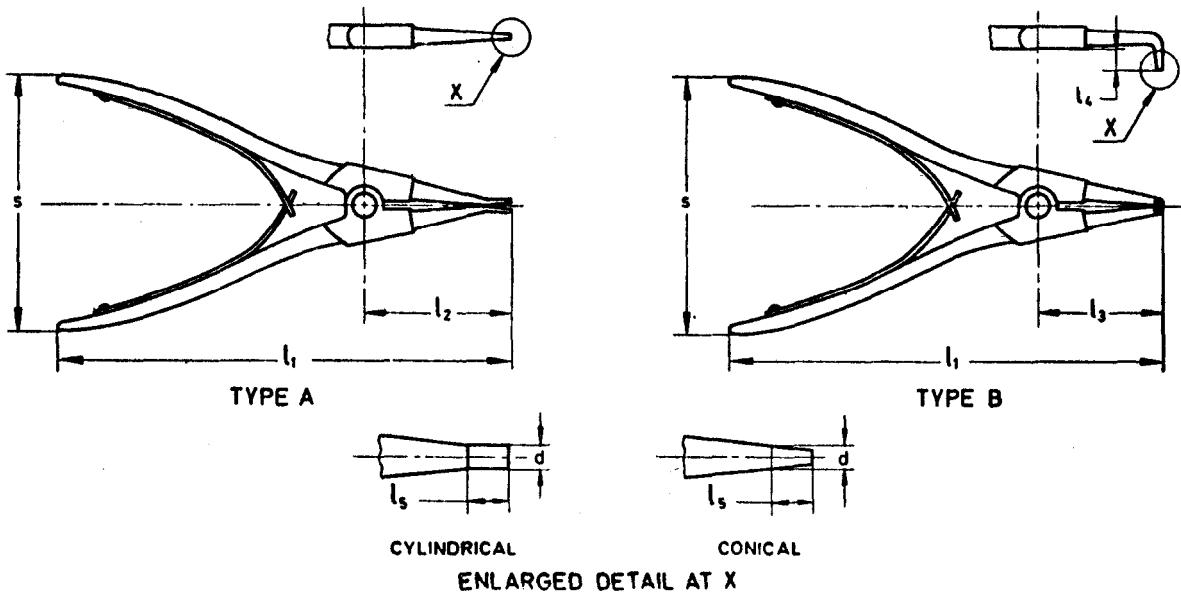




**Indian Standard**  
**SPECIFICATION FOR**  
**PLIERS FOR EXTERNAL CIRCLIPS**

**1. Scope** — Covers requirements for pliers for external circlips conforming to IS : 3075-1965 'Dimensions for circlips'.

**2. Dimensions**



All dimensions in millimetres.

Nominal Size*	d		l <sub>1</sub>		l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		s Approx	For External Circlips†
	Nom	Tol	Nom	Tol				Nom	Tol		
8	0.9	+0 -0.1	135	±10	38	28	12	1.2	+0 -0.2	70	8 to 10
10	1.3	+0 -0.1	135	±10	38	28	12	1.5	+0 -0.2	70	10 to 25
19	1.8	+0 -0.1	175	±12	50	38	14	2.5	+0 -0.3	100	19 to 60
40	2.3	+0 -0.15	215	±15	63	50	16	3.5	+0 -0.4	120	40 to 100
85	3.2	+0 -0.15	310	±15	80	80	20	4.5	+0 -0.4	170	85 to 165
125	3.5	+0 -0.15	500	±20	100	100	25	6.0	+0 -0.4	280	125 to 300

\*Indicates the minimum size of circlip for which the plier shall be used.

†Conforming to IS : 3075-1965.

**3. Hardness** — The hardness of the jaws shall be  $440 \pm 60 \text{ HV5}$  ( $\approx 44 \pm 5 \text{ HRC}$ ).

**4. General Requirements** — The material, manufacture, workmanship, finish, preservation and packing and sampling shall conform to IS : 2615-1964 'General requirements for pliers, pincers and nippers'.

**5. Designation** — A plier of Type B and of nominal size 40 mm shall be designated as:

**Plier B40 IS : 7990**

**6. Test** — The pliers shall be tested by opening five times the number and size of external circlip as indicated below and on the completion of test the pliers shall show no sign of deformation:

Nominal Size	Size of External Circlips*	Number of Circlips†
8	10	2
10	25	2
19	60	2
40	100	2
85	105	1
125	300	1

\*Conforming to IS : 3075-1965.

†For testing of pliers of nominal size, up to and including 40 mm, the two circlips shall be soldered together.

**7. Marking** — The pliers shall be marked with the type, nominal size and manufacturer's name, initials and/or recognized trade-mark.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

## EXPLANATORY NOTE

While preparing this standard, assistance has been derived from DIN 5254-1965 'Zeugen für Sicherungsscheiben für Wellen (Pliers for retaining rings for shafts)' issued by Deutsches Institut für Normung.